

Title (en)

Continuous two dimensional monitoring of thin webs of textile materials

Title (de)

Kontinuierliche zweidimensionale Überwachung von dünnem Gewebe textilen Materials

Title (fr)

Monitoring continu bidimensionnel de tissu textile mince

Publication

EP 0604875 B1 19990421 (EN)

Application

EP 93120586 A 19931221

Priority

US 99911492 A 19921231

Abstract (en)

[origin: EP0604875A2] An apparatus monitors a web of textile material which is also processed by a textile processing machine. The web is in motion relative to an imaging unit, and the imaging unit repetitively scans at least one strip across the web in a direction substantially perpendicular to the direction of relative motion of the web. A computer receives signals from the imaging unit and produces digital data corresponding thereto. The computer further analyzes the digital data to find entities of interest in the web and determines parameters of the found entities of interest. Preferably, the imaging unit and computer include distinguishing means for producing a plurality of optical images of the same portion of the web where each of the optical images are distinguished one from the others by the spectral content. In addition, the imaging unit and computer produce a plurality of time separated images, where each of the time separated images are produced during different lighting conditions on the web. In one embodiment, one image is produced while the front side of the web is illuminated, and another image is produced on the same portion of the web while the rear side of the web is illuminated. <IMAGE>

IPC 1-7

G01N 21/89

IPC 8 full level

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CPC (source: EP US)

G01N 21/8915 (2013.01 - EP US); **G01N 2021/8845** (2013.01 - EP US); **G01N 2021/8908** (2013.01 - EP US)

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DOCDB simple family (application)

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